

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/012541

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C233/29 C07C233/43 C07C233/15 C07C255/54 C07D233/54
C07D295/12 C07D213/75

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, BEILSTEIN Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	M.S. WADIA: SYNTH. COM., vol. 33, no. 15, 2003, pages 2725-2736, XP001194841 page 2726 - page 2728 page 2729, paragraph 3 - page 2733, paragraph 1	10-25
X	----- DATABASE CHEMABS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; WANG, XICUN ET AL: "Phase transfer catalyzed syntheses of 4-carboxyphenoxyacetic acid derivatives" XP002297906 retrieved from STN Database accession no. 1999:687365 abstract -/-	1-7

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

17 March 2005

Date of mailing of the international search report

06/04/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	& SYNTHETIC COMMUNICATIONS , 29(23), 4153-4161 CODEN: SYNCAV; ISSN: 0039-7911, 1999, -----	
X	DATABASE BEILSTEIN BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; 1991, VITI G.: XP002297907 Database accession no. 4207727	1-8
X	Voir aussi réaction 1 abstract	20-25
X	----- S. RIAZ HASHIM: "A Convenient Method for the Preparation of 3-Phenoxy/ Thiophenoxy-2 (1H)-Quinolinones" IND. J. CHEM., vol. 40, 2001, pages 357-360, XP009036872	1,8
Y	page 358, right-hand column, paragraph 1; figure I; example 5 page 359; figure ii; examples 5e,12; table I	10-25
X	----- TING SU: "Design and Synthesis of Glycolic and Mandelic Acid Derivatives as Factor Xa Inhibitors" BIOORG. MED. CHEM. LETT., vol. 11, 2001, pages 2279-2282, XP002297905 voir méthyl ester correspondant avant étape d (hydrolyse) page 2280; figure 1; example 2	1,8
Y	----- US 5 475 139 A (LEE FANGCHEN ET AL) 12 December 1995 (1995-12-12) the whole document	10-25
X	----- WO 03/082847 A (AKATSUKA HIDENORI ; TANABE SEIYAKU CO (JP); IIJIMA TORU (JP); MITSUI T) 9 October 2003 (2003-10-09) page 195 - page 196; examples 67-71 -----	1-8, 20-25

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: -

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claims may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT). For these reasons, a meaningful search over the whole breadth of the claims is impossible. Consequently, the search has been restricted to the combination of claims 7 and 8, the examples (claim 9) for the compounds of formula (I), as well as the processes (claims 10-18, 20-24) and the use of these compounds for making the diphenylamines (claim 19).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5475139	A	12-12-1995	NONE	
WO 03082847	A	09-10-2003	AU 2003221178 A1	13-10-2003
			BR 0308796 A	11-01-2005
			CA 2479831 A1	09-10-2003
			EP 1489078 A1	22-12-2004
			WO 03082847 A1	09-10-2003
			JP 2004250417 A	09-09-2004